REMARKS

In complete response to the non-final Official Action dated February 20, 2003, Applicants hereby request entry of the above-proposed amendments and remarks that follow. Applicants submits a Petition for a three (3) month extension of time together with the appropriate fees. A grant of that Petition is earnestly solicited.

Per this Amendment, claims 1 - 4, 7, 8, 11, 12, 15, 16 are currently pending in this application. Claims 5, 6, 9, 10, 13, 14, 17 and 18 have been cancelled without prejudice per this amendment. New independent claims 19 and 20 have been added. No new matter has been added.

Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Gupta et al. This rejection is respectfully traversed.

Regarding independent claim 11, the Examiner states Gupta discloses:

assessing a network site (col. 2, l. 66, to col. 3, l. 9; col. 8, ls. 15-25; col. 9, ls. 55-58);

receiving a form from said network site, said form including at least one field to be filled in (col., 2, l. 66, to col. 3, l. 9; col.. 6, ls. 28-39; col. 8, ls. 15-34); and

mapping said field to be filled in to a pre-determined value (col. 2, l. 66 to col. 3, l. 9; col. 10, ls. 19-24).

The Examiner states independent claim 15 is for a system of method claim 11, and is rejected under the same rationale. The Examiner further states independent claims 1 and 7 are for a system and a network client of method claim 11, and are rejected under the same rationale.

Gupta et al discloses a method for automatically filling in on-line forms presented by web pages in an internet transactional environment by determining based upon selectable criteria a form identifier corresponding to a particular on-line form, and thereupon, for each form so identified, identifying one or many corresponding match patterns with which a page containing a

target on-line form is parsed to obtain a plurality of attributes, and thereupon, for each attribute obtained in the parsing step, indexing into a database to obtain user information which may be used to fill in the target form (col. 2, l. 66 - col. 3, l. 9).

The Examiner refers in particular to the description of Fig. 1D in Gupta et al. Fig. 1D depicts a plurality of relationships between data objects in the User Meta-database 170. Relationship 60 associates a form finding criterion, here a form URL 64, with a form identifier, here a form name 62. Relationship 70 associates a pattern for matching 74 with a form name 72. Relationship 80 associates a form name 82 with a property name 86, an attribute name 84 and a transform function 88. Attribute 84 is a field in a form which we would like to fill in automatically, for example a space for the user's name. Property 86 is a piece of user meta data, stored in User Meta-database 170, for example, a name of a user. Transformation function 88 converts a property into a value for filling in a field in a form. For example, consider a form that has an attribute called "name" which is of a type "last name, first name." Further, consider user meta data that unique to each user comprising a first property, "first-name," and a second property, "last-name." A value to fill into the form for the "name" attribute is obtained by concatenating the property "last-name," followed by a "comma," followed by the property "first-name." The concatenation process is a transformation function. Using this technique, the same user meta data may be specified in different ways by different forms. Applying these techniques, provides the ability to specify how to modify properties, or meta data, to fill in a wide variety of forms. Finally, relationship 90 associates a User ID 92 with a form ID 94, and a plurality of property-value tuples 96, 98 and 99 (col. 6, ls. 28-54).

The Examiner also particularly refers to the automated order form filling procedure in Gupta et al. Forms associated with a vendor's site corresponding to product selections made by a user are automatically filled in with the information stored in User Meta-database 170 and User Selection database 180, such as the name, credit card number, and address of a user, using relationships 60, 70, 80 and 90 depicted in FIG. 1D. FIG. 3D depicts a flowchart 307 of the process steps for automated form filing according to a particular embodiment of the invention. In a step 350, the appropriate form identifier for a particular vendor is determined based upon a

selectable criterion using relationship 60. Relationship 60 associates the criterion of form URL 64 with a form identifier, form name 62. Next, in a step 352, the form identifier determined in step 350 is used to. determine one or more corresponding matching patterns using relationship 70. Relationship 70 associates form identifier form name 72, which will be the form identifier determined in step 350, with pattern 74. Next, in a step 354, pattern 74 is matched against a page web page containing a form of interest which is to be filled in. In a decisional step 356, if no match is found with the pattern 74, then an error condition is returned, so that a system administrator can be made aware that there is a form for which no matching pattern exists. Otherwise, in a step 358, the page is parsed in order to obtain a plurality of attributes. Then, in a step 359, properties are identified using relationship 80 to identify those required to fill in the target form. In a step 360, a value is obtained for each property using relationship 90 by matching the form identifier to a form name 94 and reading property--value pairs 96, 98 and 99. Next, in a step 362, the properties determined in step 358 are transformed using relationship 80 to yield values for each attribute in the target form by applying transformation function 88 corresponding to property name 86 matching the property of interest in relationship 80 for the particular form identifier form name 82. The result is used to fill in the attribute corresponding to attribute name 84. Finally, in a step 364, the target form is filled in with property values obtained in step 362. Then processing returns (col. 8, ls. 15-53).

Initially, it is noted that the independent claims have been amended to include the field-to-schema and schema-to-value mapping, and the URL specific and generic field-to-schema mapping. Also, two new independent claims have been added in accordance with Fig. 3 of the instant application and the corresponding description in the specification.

It is respectfully submitted that Gupta et al does not anticipate the invention as claimed. Contrary to the assertion by the Examiner, it is respectfully submitted that Gupta et al does not disclose each and every limitation of a mapping facility comprising a field-to-schema mapping facility configured to map said at least one field to a schema and a schema-to-value mapping facility configured to map said schema to a value, wherein said field-to-schema mapping facility comprises a uniform resource locator specific field-to-schema mapping facility configured to

map said at least one field to a schema for a specific world wide web site and a generic field-to-schema mapping facility configured to map said at least one field to a generic schema.

In view of the foregoing, it is believed that the present application is in condition for allowance. Accordingly, early and favorable action is respectfully requested.

The Commissioner is hereby authorized to charge any missing fees due in connection with the present Amendment or credit any overpayment to Deposit Account 19-4293.

Respectfully submitted,

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8/20/03

APPENDIX

Claim 1 (Amended): A system for automatically pre-setting form field values, comprising:

a network access facility configured to access a network site to receive a form including at least one field; and

a mapping facility configured to map said field to a pre-determined value, said mapping facility comprising a field-to-schema mapping facility configured to map said at least one field to a schema and a schema-to-value mapping facility configured to map said schema to a value, wherein said field-to-schema mapping facility comprises a uniform resource locator specific field-to-schema mapping facility configured to map said at least one field to a schema for a specific world wide web site and a generic field-to-schema mapping facility configured to map said at least one field to a generic schema.

Claim 2 (original): The system according to claim 1, wherein said network access facility is an Internet content browser client.

Claim 3 (original): The system according to claim 1, wherein said network site is a world wide web site and said form is a hyper-text mark-up language form.

Claim 4 (original): The system according to claim 1, wherein said network access facility is an Internet content browser client plug-in working in conjunction with an Internet content browser client.

Claims 5-6 (cancelled)

Claim 7 (Amended): A network client configured to facilitate automatic pre-setting of form field values, comprising:

a network access facility configured to access a network site to receive a form including at least one field; and

a mapping facility configured to map said field to a pre-determined value, said mapping facility further comprising a field-to-schema mapping configured to map said at least one field to a schema and a schema-to-value mapping configured to map said schema to a value, wherein said mapping facility comprises a uniform resource locator specific field-to-schema mapping facility configured to map said at least one field to a schema for a specific world wide web site and a generic field-to-schema mapping facility configured to map said at least one field to a generic schema.

Claim 8 (original): The network client according to claim 7, wherein said network site is a world wide web site and said form is a hyper-text mark-up language form.

Claims 9-10 (cancelled)

Claim 11 (Amended): A method for facilitating automatic pre-setting of form field values, comprising the steps of:

accessing a network site to receive a form including at least one field;

receiving [a] the form from said network site, said form including at least one field to be filled in; and

mapping said field to be filled in to pre-determined value, said mapping step comprising mapping said field to a schema and mapping said schema to a value, wherein said mapping step comprises the steps of mapping said at least one field to one of a uniform resource locator specific schema or generic schema.

Claim 12 (original): The method according to claim 11, wherein said network site is a world wide web site and said form is a hyper-text mark-up language form.

Claims 13-14 (cancelled)

Claim 15 (Amended): A system for automatically pre-setting form field values, comprising:

a form facility configured to process a form including at least one field; and

a mapping facility configured to map said at least one field to a pre-determined value, said mapping facility comprising a field-to-schema mapping configured to map said at least one field to a schema and a schema-to-value mapping configured to map said schema to a value, wherein said field-to-schema facility comprises an application specific field-to-schema mapping facility configured to map said at least one field to a schema for a specific application and a generic field-to-schema mapping facility configured to map said at least one field to a generic schema.

Claim 16 (original): The system according to claim 15, wherein said form is a graphical user interface form.

Claims 17-18 (cancelled)

Claim 19 (new): A system for automatically pre-setting form field values, comprising :

means for accessing a network site and receiving a form including at least one field;

means for associating a field name with each field to be filled in;

means for comparing the field name with a uniform resource locator specific field-to-schema mapping or a generic field-to-schema mapping to map said field name to a schema name;

means for performing a schema-to-value mapping to map said schema name to a value; and

means for filling in the field with the value.

Claim 20 (new): A method for facilitating automatic pre-setting of form field values, comprising the steps of:

accessing a network site to receive a form including at least one field to be filled in;

receiving the form from said network site; and

associating a field name with each field to be filled in;

comparing the field name with a uniform resource locator specific field-to-schema mapping or a generic field-to-schema mapping to obtain a schema name which may be a dynamic schema name using an assumed field name;

performing a schema-to-value mapping and if no value is found by the mapping concatenating a value if a concatenation rule exists; and

filling in the field with the value obtained in the previous step.